Info-Hams Digest   Tue, 10 May 94   Volume 94 : Issue 507

Today's Topics:
                      * SpaceNews 09-May-94 *
                        2m J-Pole at 70cm
                30Mhz - 40Mhz range, who uses it?
                     Acceptable use of HAM
      Anyone used/designed a linear transponder for terrestrial?
                       CD-ROM Buck vs. QRZ
                         FCC Computers
              HAMFEST - WILMINGTON, NORTH CAROLINA
                     nude amateur radio nets
                       RB325 Training Ideas
                        Sick Ham (2 msgs)
              use INTERNET for linked repeater? (2 msgs)
                       Was this a bad idea?

Date: 9 May 94 16:48:15 GMT
From: news-mail-gateway@ucsd.edu
Subject: * SpaceNews 09-May-94 *
To: info-hams@ucsd.edu

SB NEWS @ AMSAT $SPC0509
* SpaceNews 09-May-94 *

BID: $SPC0509

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=========
SpaceNews
=========
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MONDAY MAY 9, 1994

SpaceNews originates at KD2BD in Wall Township, New Jersey, USA. It is
published every week and is made available for unlimited distribution.

* SPACE CALENDAR *
==================
May 10 - Annular Solar Eclipse, Visible from Mexico, USA, Canada
May 20 - Resurs Launch (Russian)
May 24-25 - Partial Lunar Eclipse
May 25 - DSPSE (Clementine), 4th Earth Flyby
May 27 - DSPSE (Clementine), Lunar Flyby

[Info via LU7AKC]

* WEBERSAT NEWS *
=================
WEBERSAT (WO-18) is broadcasting new pictures and light spectrometer data
weekly. Software for the extraction, decoding, and display of spectrometer
data, written by Bob (KB7KCL), is available on LO-19 (file #s 371a/3739),
or directly from Weber State University. Monday UTC continues to be the
day for the broadcast of the most recent spectrum, along with the week's
WOD.

WeberWare 1.0, 1.2, 1.3, or a similar program is required for picture
extraction, decoding, and display. WeberWare 1.3 is the current software
version, and is available from Weber State University, AMSAT-NA, or AMSAT-UK.
The most recent WeberSat double field image is number 10/14, which was taken
of an as yet unidentified area of Northern Nigeria, Africa. The photo has
very few clouds, and land features are clearly visible. Expect new photos
sometime during the week of May 9th.

WO-18 is currently sending spacecraft solar array current whole orbit data
(WOD). This is an excellent opportunity for a student, group, or class to
use this data for spacecraft motion studies, or for studying the long term
effects of the space environment on solar cell effeciency. WOD collection
and broadcast will adhere to the following schedule:

```
 1 May/Week1: Array currents, Ch# 26 27 28 29 2A 2B
 8 May/Week2: Array currents, Ch# 26 27 28 29 2A 2B during 10-May-94 eclipse
15 May/Week3: BCR, 21 22 29 2F 33 36
22 May/Week4: Temperatures and impact detector, Ch# 14 2F 30 35 3B 40
29 May/Week1: Array currents, Ch# 26 27 28 29 2A 2B
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[Info via EA2CLS]

* MICROSAT DESIGN AT STANFORD *
===============================
Over the years a number of Stanford researchers have been involved in the
design and operation of dozens of different kinds of space vehicles. But,
beginning this year, the Aeronautics and Astronautics Department has
initiated a new program that involves students in designing, constructing
and controlling small, simple and inexpensive "microsatellites" that are
launched into orbit.

On Thursday, April 21, two dozen engineering students involved in this
program at Stanford University showed a mock-up of their first satellite
design to a visiting Russian official, Yuri Plotnikov, professor of flight
mechanics and control design at the Moscow Aviation Institute.

If the project goes as planned, a year from now the 2-foot-wide hexagonal
satellite will hitch a ride on top of a Delta rocket along with a commercial
satellite. Once it goes into orbit, the satellite will begin beaming back
digital pictures of Earth and broadcasting its position and status over ham
radio channels with a synthesized voice.

"The program has two major objectives," said Robert Twiggs, a visiting
professor brought to Stanford from Weber State University in Utah to
jump-start the new small satellite development laboratory. "First is to give
graduate students in aero-astro and other departments practical, hands-on
experience in designing and building something that can be launched into
space in only a year on a very limited budget. Second is to provide
faculty, students, space experimenters and industry with an opportunity
to do inexpensive space experiments."

Plotnikov's interest stems from the fact that the Moscow Aviation
Institute is a professional school with 15,000 students devoted to aerospace
design. "The name is historical. Actually, we design anything that flies,"
he said. The institute currently has a joint satellite program with Utah
State University. When asked whether something similar is likely with
Stanford, he shrugs and replies, "It's all a matter of funding."

The students have nicknamed their design the Stanford (or Satellite) Quick
Research Testbed, or SQUIRT. They hope that this could become a de facto
standard for microsatellites, which are a growing phenomenon worldwide.

Students at the University of Umea in Kirna, Sweden, are working on a parallel design. So far, about a dozen student-designed microsatellites have been built and launched.

The watchwords for these satellites are simple and inexpensive. So the Stanford design uses powerful magnets to keep the satellite aligned perpendicular to the Earth's magnetic field, rather than employing complicated gyros and thrusters to control its position.

"Usually, the reason for a satellite is its payload. But we are doing things backward. Our purpose is to get the experience of designing the satellite, so what it carries is of secondary importance. However, we've tried to come up with a payload that will be interesting and worthwhile," said Christopher Kitts, a graduate student in mechanical engineering.

The payload the students have agreed upon is a digital camera, voice synthesizer and global positioning satellite system receiver. The GPS receiver will allow student controllers to determine the satellite's position. Simple photocells will determine when the camera is pointing toward the Earth. That will allow the Logitech digital camera to snap images of different parts of the globe that will be transmitted by radio to interested ham radio operators.

According to Kitts, participants hope that the pictures and synthesized messages from the satellite can be used in elementary schools, middle schools and high schools to help interest students in science.

[Info via Axel, CE3AFC]

* FO-20 MALFUNCTION *
=====================
FO-20 command station had confirmed that the FO-20 satellite has experienced a malfunction. The operating schedule previously announced has been cancelled. More details will be available next week.

[Info via Kazu Sakamoto, JJ1WTK]

* RS-12 NEWS *
==============
Bandi, HA5WH reports that his friend, Sanyi, XU7VK is active on RS-12 from Cambodia and is looking for contacts. XU7VK is active during his local daytime hours and is using CW.

* OSCAR-11 NEWS *
=================

During a conversation with Doug, G0SYX at the Dayton Hamvention, Eric,
WB1HBU was informed that UoSAT-OSCAR-11 now has its S-band beacon
transmitting continuously on 2401.5 MHz.

[Info via Eric, WB1HBU]

* FEEDBACK/INPUT WELCOMED *
===========================
Mail to SpaceNews should be directed to the editor (John, KD2BD) via any
of the following paths:

FAX   : 1-908-747-7107
PACKET   : KD2BD @ N2KZH.NJ.USA.NA
INTERNET : kd2bd@ka2qhd.de.com -or- kd2bd@amsat.org

MAIL   : John A. Magliacane, KD2BD
           Department of Engineering and Technology
           Advanced Technology Center
           Brookdale Community College
           Lincroft, New Jersey 07738
           U.S.A.

     <<=- SpaceNews: The first amateur newsletter read in space! -=>>

/EX

--
John A. Magliacane, KD2BD   * /\/\ * Voice   : 1-908-224-2948
Advanced Technology Center |/\/\/\| Packet : KD2BD @ N2KZH.NJ.USA.NA
Brookdale Community College |\/\/\/| Internet: kd2bd@ka2qhd.de.com
Lincroft, NJ 07738   * \/\/ * Morse   : -.- -.. ..--- -... -..

Date: 9 May 94 23:44:00 GMT
From: agate!howland.reston.ans.net!news.cac.psu.edu!news.pop.psu.edu!psuvax1!
news.ecn.bgu.edu!willis1.cis.uab.edu!news.cs.uah.edu!malgudi.oar.net!infinet!
nitelog!greg.pool@ucbvax.berkeley.
Subject: 2m J-Pole at 70cm
To: info-hams@ucsd.edu

GG> I recently obtained by FTP the instructions for making a 2m
GG>J-Pole antenna from 300 ohm cable. It said that this ant should also work
GG>on 70 cm. Does anyone have experience doing this? or is it much better to
GG>make a J-Pole specially for 70 cm?

Yes it will, depending on the dimensions. We had Art Hoffman WA6TVN do
some tests on a common J-pole design and found it was resonant on 70 cm
but it's take-off angle is higher than the 2 m. You might want to tilt
it toward the station or repeater you talk to for better results.

Aloha+73 de Greg WH6DT

 ~ OLX 2.1 TD ~ Darn cat...get off the keyb*$%#%&(&**%^&%   NO CARRIER

Date: 9 May 94 14:02:24 GMT
From: agate!howland.reston.ans.net!europa.eng.gtefsd.com!news.msfc.nasa.gov!
news.larc.nasa.gov!lerc.nasa.gov!kira.cc.uakron.edu!malgudi.oar.net!hypnos!voxbox!
jgrubs@ucbvax.berkeley.edu
Subject: 30Mhz - 40Mhz range, who uses it?
To: info-hams@ucsd.edu

-----BEGIN PGP SIGNED MESSAGE-----

shawkins@harp.aix.calpoly.edu (Stuart Hawkins) writes:

> Does anyone know who/what uses the 30Mhz to 40Mhz frequency range?
> I have a European 35Mhz transmitter for my RC aircraft.
> I would like to know if it's safe to use it in the States.
> Does anything conflict? Military possibly?

Police, fire, rescue, commercial land mobile, government
agencies, ... Yeah, I'd guess "conflict" is possible. However,
it may be convertable to the RC channels in the 4 meter band.

-----BEGIN PGP SIGNATURE-----
Version: 2.3a

iQCVAgUBLc5DEMmzkeX3rfUNAQF7MgP8C/yvvWqvY3AG3jctRvZ1pHO1KFh9gErI
8Mhre4tEGjcJdGpPkpnGU1YCnfqYV68Oq5Z2t9a+0OTYXokQ2ZkzbtXb1CFw60Wc
a8DroFJifdzPIcMBwhfNamvUz+R3ct4J1r+2Gcfv8cpekT6DFAdexwGODQJHI7sE
qnZTnBjvzRY=
=/rGf
-----END PGP SIGNATURE-----

```
+---------------------------------------------------------------------+
| Jim Grubs, W8GRT           Voxbox Enterprises    Tel.: 419/882-2697 |
| jgrubs@voxbox.norden1.com  6817 Maplewood Ave.                      |
| Fido: 1:234/1.0            Sylvania, Ohio 43560                     |
+---------------------------------------------------------------------+
```

Date: 4 May 94 03:17:00 GMT
From: agate!howland.reston.ans.net!news.cac.psu.edu!news.pop.psu.edu!psuvax1!
news.ecn.bgu.edu!willis1.cis.uab.edu!news.cs.uah.edu!malgudi.oar.net!infinet!
nitelog!greg.pool@ucbvax.berkeley.
Subject: Acceptable use of HAM
To: info-hams@ucsd.edu

HH>This type of activity doesn't bother me, but I have heard the argument
HH>that "Yes, it is non profit, but it is conducting the 'business' of the
HH>organization" When I hear this argument, I think of the hamfest talk-in
HH>and parking usage of ham radio. It certainly is the 'business' of the
HH>organization that puts on the hamfest. What if National Public Radio
HH>(I think they're non-profit) wanted to use amateur radio to coordinate
HH>some activity?

Check that, Harv. I think your answer is a couple of issues back in
QST. Remember that as long as you are not directly making a profit you
can conduct business on the air. Hence the idea that you COULD order a
pizza on the air. But it makes it easier for folks to provide emergency
communications for races. If the church is non-profit, no problem.

 ~ OLX 2.1 TD ~ Aloha+73 de Greg WH6DT greg.pool@nitelog.com

Date: 9 May 94 19:25:59 GMT
From: agate!howland.reston.ans.net!europa.eng.gtefsd.com!library.ucla.edu!
csulb.edu!csus.edu!netcom.com!dgf@ucbvax.berkeley.edu
Subject: Anyone used/designed a linear transponder for terrestrial?
To: info-hams@ucsd.edu

Has anyone here ever used, designed, built or operated a linear transponder
for terrestrial ham radio use? The kind of thing I'm referring to would
work like a VHF/UHF repeater, but rather than demodulate/retransmit an FM
signal, it would convert a narrow range of frequencies linearly, so you
could "repeat" any mode (SSB, CW mainly) within the designated passband.
I thought one was/is in operation in 6-land somewhere, but I couldn't
turn anything up in a repeater directory.

73 Dave WB0GAZ dgf@netcom.com

Date: 9 May 94 21:42:00 GMT

From: amd!netcomsv!netcomsv!netcomsv!boo!uttsbbs!ted.armstrong@decwrl.dec.com
Subject: CD-ROM Buck vs. QRZ
To: info-hams@ucsd.edu

I just opened my Buckmaster CD-ROM and from what I can tell it is very
extensive. Could anyone out there comment if buying QRZ-Ham Radio would
also be worthwhile or would I just find redundancies?

. OLX 2.1 TD . ASCII and Ye Shall Receive

+--+
| The Transfer Station BBS (510) 837-4610 & 837-5591 (V.32bis both lines)|
| Danville, California, USA. 1.5 GIG Files & FREE public Internet Access |
+--+

Date: 9 May 94 23:02:04 GMT
From: newstf01.cr1.aol.com!search01.news.aol.com!not-for-mail@uunet.uu.net
Subject: FCC Computers
To: info-hams@ucsd.edu

In article <9404290939.AA50999@swmis>, P.Lucas@mail.nerc-swindon.ac.UK writes:

YA! I agree, I have been waiting 11 weeks not still no call, and worst yet they
have no idea (SUPRISE!!!) when it will be completed!

Something have got to break!

73's Randy KE6??? (not to funny any more!)

Date: 9 May 94 19:25:07 GMT
From: sdd.hp.com!math.ohio-state.edu!cs.utexas.edu!not-for-mail@hplabs.hpl.hp.com
Subject: HAMFEST - WILMINGTON, NORTH CAROLINA
To: info-hams@ucsd.edu

HAMFEST - WILMINGTON, NC

The 2nd Annual Wilmington Hamfest (Seafest) will be on Saturday, June 4 from
9am - 3pm in Trask Coliseum on the campus of the University of North Carolina
at Wilmington. The coliseum is located at 601 South College Road (Hwy #132)
which is at the end of Interstate 40. This is an ARRL sanctioned hamfest and
is sponsored by the Azalea Coast Amateur Radio Club.

Talk-in will be on the 147.180 repeater.

Tickets are $5 at the door and $4 by preregistration. Tables for commercial
dealers and the flea market are $6 each and chairs are $1 each. Electrical
hookups (120 volt AC) are $5 each and will be for commercial dealers only.
No tail-gate section. All activities will be inside. Preregistration must be
received by May 18th and should include a S.A.S.E. and a check payable to the
Azalea Coast A.R.C. and sent to the Azalea Coast A.R.C., P.O. Box 4044,
Wilmington, N.C. 28406

VEC Exams for all classes will be at UNC-Wilmington in Morton Hall (Room 209)
Registration will begin at 10:00 am. Walk-in only with NO pre-registration.
The cost will be $5.75. Please bring your original license and a copy, and
a picture ID to the exams. Also bring your original and a copy of any CSCE,
if appropriate. Directions to the testing area will be posted and announced
at the SEAFEST. Contact: Mr. Sam Franklin (KB4IL) 4026 Chapra Drive,
Wilmington, NC 28412.

On-site food will be available.

Air conditioned facilities - Ample free parking area - Handicap access -
Many commercial dealers - Inside flea market - Prizes - VEC testing -
Special interest programs - Great restaurants - Lots of nearby shops -
Battleship USS North Carolina - Fort Fisher Aquarium and Museum -
Riverboat cruises - Historic sights - Horse drawn carriage rides -
Nearby Wrightsville and Carolina beaches -

This Hamfest is in an area the whole family can enjoy.

For more information, you may contact:
Azalea Coast Amateur Radio Club, P.O. Box 4044, Wilmington, N.C. 28406
or the Seafest Chairman:
Mr. Buddy Boone (N4CTJ) 117 Springdale Drive, Wilmington, NC 28405
phone: 910-371-4595 (days) or 910-799-8693 (nights).

Date: 9 May 94 19:27:56 GMT
From: agate!howland.reston.ans.net!europa.eng.gtefsd.com!library.ucla.edu!
csulb.edu!csus.edu!netcom.com!kludge@ucbvax.berkeley.edu
Subject: nude amateur radio nets
To: info-hams@ucsd.edu

In article <1994May9.145745.26616@emba.uvm.edu> gdavis@griffin.emba.uvm.edu (Gary
Davis) writes:
>
>What is wrong with you geeks? Haven't you ever wished to join the natives
>of the Amazon rain forests?

>What could be more natural?

No way. Sure, it's wet enough for good grounding, but the treeline is
too high to put up a decent antenna system. I think I'll stay nude right
here, thank you very much.
--scott
--
"C'est un Nagra. C'est suisse, et tres, tres precis."

Date: 9 May 94 18:53:21 GMT
From: news-mail-gateway@ucsd.edu
Subject: RB325 Training Ideas
To: info-hams@ucsd.edu

Bid: $RACESBUL.325
Subject: RB325 Training Ideas

TO: ALL EMERGENCY MANAGEMENT AGENCIES VIA AMATEUR RADIO
INFO: ALL COMMUNICATIONS VOLUNTEERS IN GOVERNMENT SERVICE
INFO: ALL AMATEURS U.S   (@USA: INFORMATION); CAP, MARS
FROM: CA GOVERNORS OFFICE OF EMERGENCY SERVICES
         (W6SIG@WA6NWE.CA)   Ph: 916-262-1600
         2800 Meadowview Rd., Sacramento, CA 95832
         Landline BBS Open to All: 916-262-1657
RACESBUL.325   RELEASE DATE: May 9, 1994

Subject: OPS - Training - Training Ideas

Here are some ideas for training, taken from the Prince George's
County ARES-RACES Newsletter, summer/fall edition for l993.
Topics for training:
        1. Disaster Response and Management for Radio Amateurs
        2. Mutual Aid Coordination
        3. Packet Radio and its operation, in AX.25 and TCP-IP
        4. The Incident Command System
        5. How to Conduct Drills and Exercises
        6. Running Public Service Events
        7. Stress Managment
        8. Hazardous Material Operatins
        9. Operation of HF Radio and Tricks of the Trade
       10. Operation of UHF & VHF Radios
       11. Operation of Office of Emergency rPreparedness console
       12. Public Relations
       13. Shelter Operations
       14. Hospital Operations

Hopefully this will stimulate your ideas, which we
appreciate your sharing! Thanks to the Prince George's Office of
Emergency Preparedness (Landover, MD) for their newsletter.

Footnote: One purpose of these bulletins is to assist the civil
defense or emergency management agency in the use of
communications volunteers as unpaid staff. Learning how to best
utilize them can be very beneficial. For more information call or
write: Stan Harter or Cary Mangum 916-262-1600; OES ACS Program,
Telecommunications Division, 2800 Meadowview Rd, Sacramento, Ca
95832

RACES Bulletins are archived on the Internet at ucsd.edu in hamradio/races
or in hamradio/packet/tcpip/incoming and can be retrieved using FTP. The
opinions stated are those of the author of the bulletin and not the poster.

Date: 9 May 94 18:33:32 GMT
From: sdd.hp.com!col.hp.com!srgenprp!alanb@hplabs.hpl.hp.com
Subject: Sick Ham
To: info-hams@ucsd.edu

Dick Flanagan (flanagan@niagara.Tymnet.COM) wrote:

: This is not to say that Mr. Waugh may not some day turn out to be another
: "legend," :-) but at least he seems to be quite legitimate now.

As long as the request is DATED, it shouldn't turn into another
Craig Shergold fiasco.

AL N1AL

Date: 9 May 94 19:48:02 GMT
From: agate!howland.reston.ans.net!europa.eng.gtefsd.com!library.ucla.edu!
news.ucdavis.edu!modem65.ucdavis.edu!ddtodd@ucbvax.berkeley.edu
Subject: Sick Ham
To: info-hams@ucsd.edu

myers@spot.West.Sun.COM (Dana Myers) writes:

>In article bdg@tymix.Tymnet.COM, flanagan@niagara.Tymnet.COM (Dick Flanagan)

writes:

>>>My Dad is an older Ham who does not get to spend much time on the air anymore
>>>and has never really become interested in computers. He is currently very sick
>>>and a few QSL cards would sure cheer him up. His call letters are K3NSN and I
>>>assume his address is listed in the callbook.

>I wonder if this is another permutation of the Shergold game?

That's the first thing I thought of too, Dana. I have seen this message
atleast three times.

cheers,
Dan
===
Dan Todd   ddtodd@ucdavis.edu   kc6uud@ke6lw.#nocal.ca.us.na
Charter Member: Dummies for UNIX

When radios are outlawed, only outlaws will have radios
- David R. Tucker on rec.radio.amateur.policy
===

Date: 9 May 94 19:21:29 GMT
From: travelers.mail.cornell.edu!tuba.cit.cornell.edu!crux1!jrl2@cu-
arpa.cs.cornell.edu
Subject: use INTERNET for linked repeater?
To: info-hams@ucsd.edu

Hello,
  What do people think about the legalities of using
the net to link a repeater system. Say I want to link a
set of repeaters that are seperated by a large distance
which would cost too much to link with normal means (vhf
or hf links). Say instead you had this setup.

  repeater output -> computer -> internet -> computer -> repeater input

  and vise versa.

  I would invision using a set of macs run maven or something
along those lines with 2 HTs with the ptt hooked up a set
 of cheap TNCs which would only hand the PTT with the microphones
 of the HT hooked to the speakers of the computers.
  This is just a thought experiment. Problems I would see would
be validating the data stream so that only authorized traffics

would be able to pass, maybe hand-filtering.

   Setup like this.

   Link only runs say an hour a day, someone babysits it with
a 5 second delay before what goes over the repeater goes out
, the babysitter si then able to kill the stream if problems
arise.

   What do you think?

   -Jeff Luszcz N2TIQ

Date: 10 May 94 02:13:22 GMT
From: agate!howland.reston.ans.net!europa.eng.gtefsd.com!library.ucla.edu!
csulb.edu!csus.edu!netcom.com!np2x@ucbvax.berkeley.edu
Subject: use INTERNET for linked repeater?
To: info-hams@ucsd.edu

Actually, what I think you are talking about is an AXIP wormhole. This is
in very common use today on ham radio's own TCP/IP network. Or, do I have
your description of the question wrong?

MY COMPUTER -> TCP/IP STATION -> Internet -> TCP/IP STATION -> Destination

--
 ==
| Phil Petersen, NP2X, Denver, Colorado | "What comes around goes goes
| Email - np2x@netcom.com | around..... Only now, you
| np2x@np2x.ampr.org [44.20.0.132] | don't have to wait for it."
| np2x@486.np2x.ampr.org [44.20.0.133] | T. Servo
 ==

Date: 7 May 94 17:38:32 GMT
From: mnemosyne.cs.du.edu!nyx10!jmaynard@uunet.uu.net
Subject: Was this a bad idea?
To: info-hams@ucsd.edu

In article <2q9tks$npn@illuminati.io.com>,
Sir Hoagy <hoagy@illuminati.io.com> wrote:
>Since I was unlicensed, was it illegal for me to use my radio
>on an amateur frequency for this situation?

Absolutely not. You did exactly the right thing. Not only that, I'll bet the
folks who were listening at the time will say the same thing.
--
Jay Maynard, EMT-P, K5ZC, PP-ASEL | Never ascribe to malice that which can
jmaynard@admin5.hsc.uth.tmc.edu | adequately be explained by stupidity.
 "The government which fears arms in the hands of its people...should."
                        -- Karl Kleinpaste

End of Info-Hams Digest V94 #507
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